



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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## The Eastern Iowa DX Bulletin

For June 30, 2023 to July 7, 2023

**Craig Fastenow, KØCF, Editor**

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article. The articles are ordered by the entity's *official* callsign prefix, callsigns used are in **bold**, and dates of operation are highlighted in **red**. Hot links are provided for QSL and other information wherever possible. Articles will remain in *The Bulletin* while active with a 5-week maximum.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

**Quick jump to:**

[Propagation](#)

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### Solar-Terrestrial Data

04 Jul 2023 1835 GMT  
 SFI: 173 SN: 121  
 A-Index: 5  
 K-Index: 0  
 X-Ray: C1.4  
 304Å: 146.8 @ SEM  
 Ptn Flx: 34  
 Elc Flx: 1840  
 Aurora: 1/n=1.99  
 Mag (Bz): 0.6  
 Solar Wind: 346.8  
 Geomag Field **INACTIVE**  
 Sig Noise Lvl **S0-S1**  
**Current Solar Image**



<http://www.n0nbh.com>  
 Copyright Paul L. Herrman 2023

Solar data courtesy of:  
[Solar Data Banners & Widgets](#)

1747

**3C, EQUATORIAL GUINEA.** Ersoy, TA2OM, continues his stay on Bioco Island (AF-010) for another two months and continues to operate as **3C3CA**. QSL via LoTW, [ClubLog's](#) [QQRS](#).

-[DXNL # 2359 June 21, 2023] (0623-0728)

**4W, TIMOR-LESTE.** Operators R7AL and RU3AR are QRV as **4W6RU** from Dili for the next two weeks. Activity is on the HF bands using CW, SSB, and FT8. QSL via [R7AL](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0714)

**7P, LESOTHO.** Schalk A22LL (ZS1LL) has moved to Lesotho and now operates as **7P8LL**. QRV on 80 and 40m with dipole, on 20, 15, and 10m with a delta loop, and on 6m with a 5 element Yagi. QSL via [EA7FTR](#), LoTW.

-[DXNL # 2359 June 21, 2023] (0623-0714)

**7Q, MALAWI.** Don, K6ZO is QRV as **7Q6M** from the Embangweni Mission Hospital in northern Malawi until possibly the end of July. Activity is in his spare time with a special emphasis on 6 meters. QSL direct to [WØMAN](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

**7Q, MALAWI.** Eddy, OE3SEU, will be active as **7Q5SE** from **June 17th or 18th onwards**. QRV mostly via QO-100 on SSB. QSL via LoTW only.  
-[DXNL # 2359 June 21, 2023] (0623-0714)

**7Q, MALAWI.** Jerry, W1IE and Bill, K4CD will be QRV as **7Q7WW** from **June 21st to July 3rd**. Activity will be in their spare time on the HF bands and 6 meters using CW, SSB, RTTY, and FT8 in DXpedition mode. QSL via operators' instructions.  
-[ARRL DX Bulletin # 24 June 15, 2023] (0616-0707)

**9A, CROATIA.** Special event station **9A150TESLA** is QRV **during July** to celebrate the 150th anniversary of Nikola Tesla's high school education. QSL direct to [9A7R](#).  
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

**C2, NAURU.** Phill, 3D2TS (FK1TS) says that things seem to be on track for **C21TS** to be active again **sometime in July**. If all goes well, this time he might **stay in Nauru for months**. He will be taking two radios and an assortment of wire antennas; his initial focus will be on FT8, with SSB to follow when he gets settled in. Updates will be posted to <https://www.hardstaff.com/> and <https://www.facebook.com/c21ts>.  
-[425DXN # 1678 July 1, 2023] (0630-0721)

**C6, BAHAMAS.** Operators Joe, W8GEX and Janet, W8CAA are QRV as C6ADX from Exuma Island, IOTA NA-001, **until July 8th**. Activity is on 60 to 10 meters. QSL via LoTW.  
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0707)

**CE9, ANTARCTICA.** Juan, LU8DBS is QRV as **LU8DBS/Z** while on assignment on Esparanza Antarctic Base, IOTA AN-018. QSL via [LU4DXU](#).  
-[ARRL DX Bulletin # 25 June 22, 2023] (0623-0714)

**DL, GERMANY.** Special callsign **DLØSOP** will be active on **July 1st-31st** for the 65th edition of the Sea of Peace Award (see <https://dl0sop.darc.de/> for full details). QSL via [ClubLog's OQRS](#), LoTW, eQSL, or direct to [DL4SVA](#).  
-[425DXN # 1677 June 24, 2023] (0630-0804)

**DU, PHILIPPINES.** Rag, LB3RE is QRV as **DU1/LB3RE** from Luzon Island, IOTA OC-042, **until July 18th**. Activity is on 40 to 6 meters. QSL to [LB3RE](#).  
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0721)

**DXCC TOP TWENTY.** Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of June 29, 2023:

1. P5 DPRK (North Korea)	11. FT5/X Kerguelen Island
2. 3Y/B Bouvet Island	12. YVØ Aves Island
3. FT5/W Crozet Island	13. VKØM Macquarie Island
4. BS7H Scarborough Reef	14. ZS8 Prince Edward & Marion Islands
5. CEØX San Felix Islands	15. KH4 Midway Island
6. BV9P Pratas Island	16. PYØS Saint Peter And Paul Rocks
7. KH7K Kure Island	17. PYØT Trindade & Martim Vaz Islands
8. KH3 Johnston Island	18. KP5 Desecheo Island
9. 3Y/P Peter 1 Island	19. VP8S South Sandwich Islands
10. FT/G Glorioso Island	20. KH5 Palmyra & Jarvis Islands

For the complete list, see <https://clublog.org/mostwanted.php>  
-[KØCF June 29, 2023] (0630-0714)

**E5/N, NORTH COOK ISLANDS.** Warwick, **E51WL** has been QRV on 12 meters using FT8 around 0700 to 1100 UTC, and on FT4 between 2100 to 2200 UTC. QSL to [E51WL](#).  
-[ARRL DX Bulletin # 24 June 15, 2023] (0616-0707)

**ET, ETHIOPIA.** Ulli, DL9WVM is QRV from club station **ET3AA** in Addis Ababa **until July 14th**. He is active between 0630 and 1400 UTC. QSL via [N200](#).  
-[ARRL DX Bulletin # 23 June 8, 2023] (0609-0714)

**F, FRANCE.** French special callsigns to be activated for this year's 110th edition of the Tour de France includes **TM11ØTDF** on **July 1st-3rd, 8th, 9th and 14th-23rd** (QSL via [F8GGZ](#)) and **TM33TDF** on **July 8th-9th** (QSL via [F6KUQ](#)).

-[425DXN # 1677 June 24, 2023] (0630-0721)

**FH, MAYOTTE.** Marek, F4VVJ, stays on Mayotte (AF-027) until June 2024, operating as **FH4VVK** on HF and 6m (SSB, RTTY, FT8). For more details see:

<http://www.qrz.com/db/FH4VVK>. QSL direct via [FH4VVK](#); or via LoTW.

-[DXNL # 2357 June 7, 2023] (0609-0707)

**FJ, SAINT BARTHELEMY.** Frank, K3TRM is QRV as **FJ/K3TRM** until **July 8th**. Activity is mostly on 6 meters and various Satellites from grid square FK87, with the possibility of some HF activity as well. QSL to [K3TRM](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0707)

**FP, SAINT PIERRE & MIQUELON.** Once again Eric, KV1J will be active as **FP/KV1J** from Miquelon Island (NA-032) from **June 27th to July 11th**, including activity during the Canada Day Contest (July 1st) and the IARU HF World Championship. Plans are to operate primarily SSB and FT8, plus some CW, RTTY and FT4, on 80-6 meters, "generally on the highest frequency band open" with a focus 12, 10 and 6m. QSL via LoTW, [ClubLog's](#) [OQRS](#) and eQSL, or via [KV1J](#). Bookmark <http://www.kv1j.com/fp/July23.html> for updates.

-[425DXN # 1675 June 10, 2023] (0623-0714)

**G, ENGLAND.** Special callsigns **GBØECA** and **GBØWCA** will be used from various locations (castles, forts, stately homes, etc.) across England. QSL via eQSL. Established in January 2021 and managed by Bob Saunders (MØMJA), the English Castles Awards (ECA) is an awards program for chasers and activators of Castles On The Air (COTA), and it is an integral part of WCA (World Castles Awards). Complete information can be found on <https://englishcastlesawards.uk/>.

-[425DXN # 1676 June 17, 2023] (0616-0707)

**I, ITALY.** Special callsign **IL3P** will be used from **July 1st to September 30th** from various locations in the Italian region of Veneto. On **July 28th-31st** team IL3P will be active from Pellestrina Island (EU-131), including participation in the IOTA Contest. QSL via [IU3EDK](#).

-[425DXN # 1677 June 24, 2023] (0630-0728)

**JA, JAPAN.** Moto, JA1GZV will be active again as **JS6UKY/6** from the Okinawa Islands (AS-017) on **July 2nd-7th**. He will operate CW on or around 7011, 10123, 14011, 18075 and 21011 kHz. QSL via JS6UKY (bureau), eQSL, or direct to [JA1GZV](#). [TNX DX World]

-[425DXN # 1678 July 1, 2023] (0630-0707)

**K, UNITED STATES.** The following stations will be active during the 15th annual "13 Colonies Special Event", which will be held from **1300 UTC on July 1st until 0400 UTC on July 8th**: **K2A** (New York), **K2B** (Virginia), **K2C** (Rhode Island), **K2D** (Connecticut), **K2E** (Delaware), **K2F** (Maryland), **K2G** (Georgia), **K2H** (Massachusetts), **K2I** (New Jersey), **K2J** (North Carolina), **K2K** (New Hampshire), **K2L** (South Carolina), and **K2M** (Pennsylvania), plus 'bonus stations' **WM3PEN** from Philadelphia (the city where the US independence was declared), **GB13COL** from England (QSL direct, see qrz.com for instructions) and **TM13COL** from France (QSL via [F5OGL](#)). Information about the award program can be found on <http://www.13colonies.us/>.

-[425DXN # 1677 June 24, 2023] (0630-0714)

**KH2, GUAM.** Yas, JA1QQU will be active as **KH2/JA1QQU** from Guam (OC-026) from **June 29th to July 4th**. He plans to be QRV between 2300-0200 UTC, and 1000-1400 UTC. QSL via LoTW and eQSL (after July 7th), or via [JA1QQU](#).

-[425DXN # 1676 June 17, 2023] (0623-0707)

**KH8, AMERICAN SAMOA.** Yuri N3QQ, Hal W8HC and James KB2FMH will be active as **KH8RRC** from Tutuila (OC-045), American Samoa on **July 4th-18th**. They plan to operate CW, SSB and FT8/FT4 on 80-6 meters from a mountaintop location within the American Samoa National Park. This will be the first ever POTA activity on the island. QSL via [ClubLog's OQRS](#), or direct to [KB2FMH](#), "LoTW afterwards".

-[425DXN # 1676 June 17, 2023] (0630-0721)

**LX, LUXEMBOURG.** Special callsign **LX9ØRTL** celebrates the 90th anniversary since Radio Luxembourg made its first long wave broadcast. It will be used by various LX operators **from July 1st until the end of the year**. Look for activity on the HF bands SSB, CW and digital modes, as well as via satellite. All QSOs will be confirmed automatically via the DARC bureau; the logs will be uploaded to ClubLog, LoTW and eQSL on a regular basis. See <https://www.qrz.com/db/LX9ØRTL> for more information.

-[425DXN # 1675 June 10, 2023] (0630-0804)

**LY, LITHUANIA.** Special callsigns **LY1933DG**, **LY9ØDG**, **LY9ØFLY**, **LY9ØSD** and **LY9ØSG** will be active on **July 1st-31st** to commemorate the 90th anniversary of the ill-fated flight of Lithuanian pilots Steponas Darius and Stasys Girenas. On July 15, 1933, they attempted a nonstop flight from New York City to Kaunas in a small airplane named "Lituanica". After crossing the Atlantic Ocean, they crashed on July 17th when they were only 650 km short of their final destination. Also active will be six special event stations from Poland, and a certificate will be available (see SP below).

-[425DXN # 1675 June 10, 2023] (0630-0728)

**OH, FINLAND.** Bruno, F4JIK will be active as **OH/F4JIK/p** on **July 4th-13th** while touring Finland in his camper van (<https://www.f4jik.fr/>). He plans to operate SSB on 40, 20 and 15 meters from several Finnish Flora & Fauna locations. [TNX F8REF]

-[425DXN # 1678 July 1, 2023] (0630-0714)

**OK, CZECH REPUBLIC.** Radioklub OK1KVK is QRV with special call sign **OL7ØKVK** until **December 31st** to mark the club's 70th anniversary. QSL via [OK6RP](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

**OX, GREENLAND.** Bo, OZ1DJJ is QRV as **OX3LX** from Qaanaaq, IOTA NA-018, **until July 18th**. Activity is on the HF bands, with a focus on 4 and 6 meters. This includes a possible trip to either Herbert Island, IOTA NA-134, or Meteorite Island. QSL via [OZØJ](#), LoTW.

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0721)

**OY, FAROE ISLANDS.** Thomas, [DC8TM](#) and Martina, [DF3TS](#) will be active as **OY/DC8TM** and **OY/DF3TS** from the Faroe Islands (EU-018) from **June 25th to July 5th**. They will operate SSB and FT8, with plans for SOTA and WWFF activations. For more details see: <https://www.qrz.com/db/DC8TM>. QSL via home calls.

-[425DXN # 1675 June 10, 2023] (0623-0707)

**PJ5, SABA & ST. EUSTATIUS.** Look for Peter, **PJ5/PA4O** and Ad, **PJ5/PE6Q** to be active from Sint Eustatius (NA-145) on **July 6th-18th**. They will operate CW, SSB and FT8 on 80-6 meters, and will participate in the IARU HF World Championship as **PJ5C**. QSLs via [ClubLog's OQRS](#).

-[425DXN # 1675 June 10, 2023] (0630-0721)

**SP, POLAND.** Special event stations **3Z9ØLOT**, **HF9ØLOT**, **SN9ØLOT**, **SO9ØLOT**, **SP9ØLOT** and **SQ9ØLOT** will be active on **July 1st-31st** to commemorate the 90th anniversary of the ill-fated flight of the "Lituanica" (see LY above). See <https://logsp.pzk.org.pl/a/lituanica/> for the certificate and more information.

-[425DXN # 1675 June 10, 2023] (0630-0728)

**ST, SUDAN.** Sudan Amateur Radio Union **STØHQ** has been QRV on 20 meters using SSB between 0050 and 0200 UTC. QSL via [ST2M](#).



-[ARRL DX Bulletin # 24 June 15, 2023] (0616-0707)

**TR, GABON.** Roland, F8EN will be active again as **TR8CR** from Gabon from **June 4th until the end of July**. He will operate CW only, and will celebrate his 95th birthday while there. QSL via [F6AJA](#) (direct or bureau); logsearch on <http://LesNouvellesDX.fr/voirlogs.php>. [TNX F6AJA]

-[425DXN # 1671 May 13, 2023] (0602-0707)

**UA, EUROPEAN RUSSIA.** Dmitry, R3GM and Igor, UA3EDQ will be active as **RI1ZZ** from Kildin Island (EU-082) and a couple of islands (RR-02-100 and RR-02-101) in the Kandalaksha Gulf from **July 1st to 8th**. QSL via [RZ3EC](#). They also plan to be QRV as R3GM/1 and UA3EDQ/1 from one or two lighthouses in Kola Bay and/or the White Sea.

-[425DXN # 1678 July 1, 2023] (0630-0707)

**UA, EUROPEAN RUSSIA.** Celebrating the 30th anniversary of the Russian Robinson Club (R3RRC), several special callsigns are expected to be in use from **July 1st to 31st**: **R3ØRRC, RA3ØRR, RC3ØRR, RD3ØRR, RJ3ØRR, RK3ØRR, RL3ØRR, RM3ØRR, RN3ØRR, RO3ØRR, RT3ØRR, RU3ØRR, RV3ØRR, RW3ØRR, RX3ØRR, RZ3ØRR**. Other stations joining the celebrations include **DR3ØRRC, GBØRRC, HG3ØRRC, II9RRC, KH6RRC, KH8RRC, KL7RRC, LZ3ØRRC, OL3ØRRC and OM3ØRRC**. A number of certificates will be available - see <https://www.qrz.com/db/R3ØRRC> for the details.

-[425DXN # 1677 June 24, 2023] (0630-0728)

**UA, EUROPEAN RUSSIA.** Commemorating the role that radio (and radio amateurs) had in rescuing the survivors of the airship "Italia" disaster, special callsigns **RT95NS, RT95MS and RT95KG** (QSLs via [RN3RQ](#)) will be active from **May 25th to July 12th**. The suffixes memorialize Nikolai Schmidt, the radio amateur who first picked up the SOS on June 3, 1928, and his close friend Mikhail Smirnov, as well as Aleksandr Kozhevnikov and Vladislav Grzhibovsky, radio amateurs and radiomen on board two of the ships that participated in the search and rescue operations. Also active will be **R1LK** (QSL via [RV1AQ](#)), the onboard amateur radio station of the "Krasin", the icebreaker (now a museum ship in Saint Petersburg) that reached the castaways on July 12, 1928. A couple of certificates will be available on <https://hamlog.online/> for contacts made with these stations and **II1ITR**.

-[425DXN # 1673 May 27, 2023] (0526-0707)

**VE, CANADA.** Chris, VO1CH will be active again as **VO2VC** from Labrador, CQ Zone 2 (WWL GO11po) on **July 4th-10th**. He will focus on 6 meters, and will be QRV on 40-10 meters outside the 6m openings. QSL via [ClubLog's OQRS](#) and LoTW, or direct to [VO1CH](#).

-[425DXN # 1677 June 24, 2023] (0630-0714)

**VE, CANADA.** Pierre, VE3KTB is QRV as **VYØERC** from Nunavut, Ellesmere Island (NA-008), **until July 12th**. Activity is on the HF bands. This includes being active as **VYØRAC** in the Canada Day contest. QSL via [MØOXO](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0714)

**VP9, BERMUDA.** G4OSY will be active as **VP9/G4OSY** VP9GE's location from **June 27th to July 8th** on 40-6m (SSB, some CW). QSL via [G4OSY](#).

-[DXNL # 2359 June 21, 2023] (0623-0714)

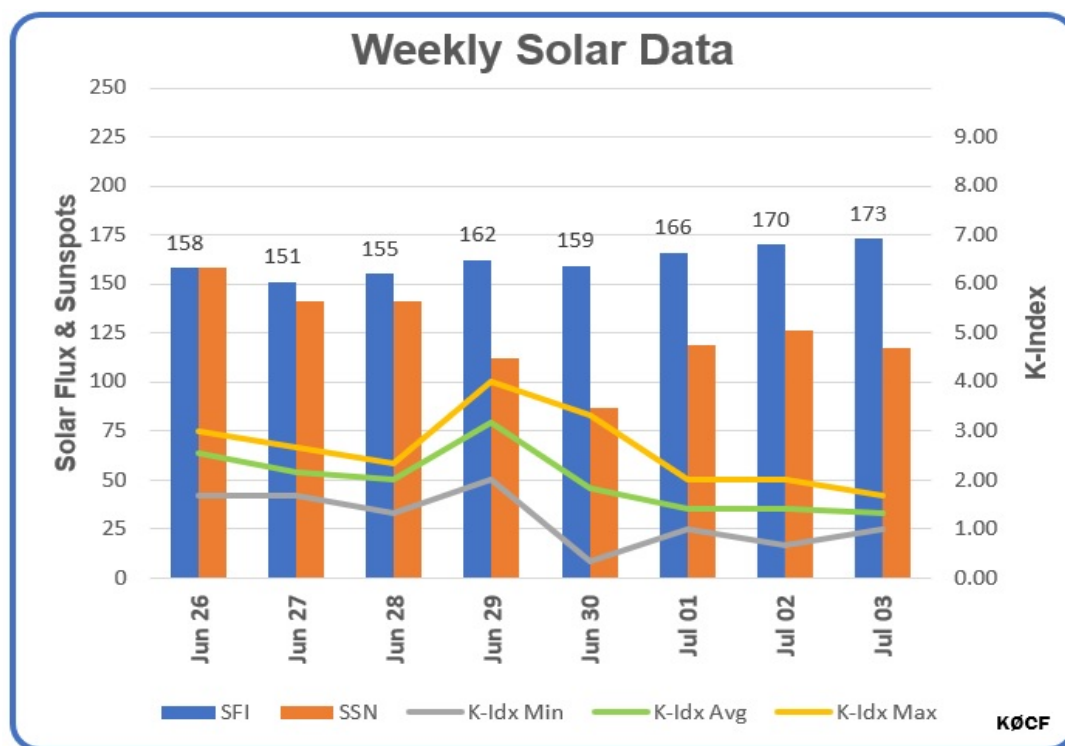
**XX9, MACAO.** Leong, **XX9ET** has been QRV on 20 meters using FT8 around 1400 UTC. QSL via LoTW.

-[ARRL DX Bulletin # 24 June 15, 2023] (0616-0707)

**XZ, MYANMAR.** Akio, JE2QIZ is QRV as **XZ2B** from Yangon **until the end of September**. Activity is on 15, 12, 10, and 6 meters using CW. QSL via [JH3SIF](#).

-[ARRL DX Bulletin # 25 June 22, 2023] (0623-0721)

## Propagation



11:23 AM July 4, 2023

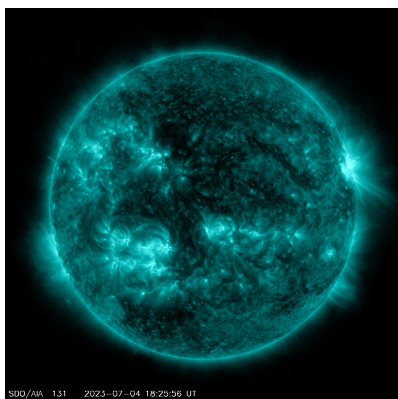
The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (K-Idx) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



### Propagation Summary (As of 11:27 AM July 4, 2023)

The average solar flux for the week of Monday, June 26th through July 3rd was down 5 points from the previous week, with a weekly high of 173 on Monday, July 3rd, following a low of 151 on June 27th.

The average sunspot count was down by 59 points for the week of June 26th to July 3rd, peaking at 158 on Monday, June 26th followed by a weekly low of 87 on June 30th.

The Planetary K-index weekly average for June 26th to July 3rd was 2.6, ranging from a 0.33 minimum to a high of 4.00 on Thursday, June 29th, producing generally quiet geomagnetic conditions.

Solar flare activity for June 26th through July 4th has been high with 9 flares, the largest of which was a major X 1.0 event on Sunday, July 2nd.

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares for the next 3 days:

Date	M-Flares	X-Flares
July 4	65%	25%
July 5	65%	25%
July 6	65%	25%

Looking ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days:

Date	Flux	Kp
Jul 4	170	3
Jul 5	165	3
Jul 6	155	2
Jul 7	155	2

Date	Flux	Kp
Jul 8	155	2
Jul 9	155	4
Jul 10	155	3
Jul 11	160	2

Date	Flux	Kp
Jul 12	165	5
Jul 13	170	5
Jul 14	175	3
Jul 15	175	3

## Solar Flares This Week (As of 11:20 AM July 4, 2023)

Date	UTC	Mag.
Jul 4	1235	M 1.4
Jul 3	0653	M 1.3
Jul 2	2314	X 1.0
Jul 2	0235	M 2.0
Jul 1	2223	M 1.1
Jun 29	1415	M 3.8
Jun 28	0844	M 1.9
Jun 27	1514	M 1.2
Jun 26	1622	M 1.6

## Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 209 on February 11, 2023.

## Favorite Propagation web sites

Excellent Maximum Usable Frequency map: <https://prop.kc2g.com/>  
<https://www.spaceweather.com/>

<https://www.solarham.net/>  
<https://dx.qsl.net/propagation/>

## A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters.

However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

## Selected Upcoming Contests

Contest	Start		End		Web Site
RAC Canada Day Contest	Jul 1	0000Z	Jul 1	2359Z	<a href="#">Rules</a>
IARU HF World Championship	Jul 8	1200Z	Jul 9	1200Z	<a href="#">Rules</a>
CQ Worldwide VHF Contest	Jul 15	1800Z	Jul 16	2100Z	<a href="#">Rules</a>
North American QSO Party, RTTY	Jul 15	1800Z	Jul 16	0600Z	<a href="#">Rules</a>
RSGB IOTA Contest	Jul 29	1200Z	Jul 30	1200Z	<a href="#">Rules</a>
10-10 Int. Summer Contest, SSB	Aug 5	0001Z	Aug 6	2359Z	<a href="#">Rules</a>
North American QSO Party, CW	Aug 5	1800Z	Aug 6	0600Z	<a href="#">Rules</a>
WAE DX Contest, CW	Aug 12	0000Z	Aug 13	2359Z	<a href="#">Rules</a>
Maryland-DC QSO Party	Aug 12	1400Z	Aug 13	0400Z	<a href="#">Rules</a>
Kentucky State Parks on the Air	Aug 12	1400Z	Aug 12	2200Z	<a href="#">Rules</a>
North American QSO Party, SSB	Aug 19	1800Z	Aug 20	0600Z	<a href="#">Rules</a>
ARRL Rookie Roundup, RTTY	Aug 20	1800Z	Aug 20	2359Z	<a href="#">Rules</a>



Hawaii QSO Party	Aug 26	0400Z	Aug 28	0400Z	<a href="#">Rules</a>
World Wide Digi DX Contest	Aug 26	1200Z	Aug 27	1200Z	<a href="#">Rules</a>
YO DX HF Contest	Aug 26	1200Z	Aug 27	1200Z	<a href="#">Rules</a>
Kansas QSO Party	Aug 26	1400Z	Aug 27	2000Z	<a href="#">Rules</a>
Ohio QSO Party	Aug 26	1600Z	Aug 27	0400Z	<a href="#">Rules</a>
All Asian DX Contest, Phone	Sep 2	0000Z	Sep 3	2400Z	<a href="#">Rules</a>
CWOps CW Open	Sep 2	0000Z	Sep 2	2359Z	<a href="#">Rules</a>
Colorado QSO Party	Sep 2	1300Z	Sep 3	0400Z	<a href="#">Rules</a>
Tennessee QSO Party	Sep 3	1800Z	Sep 4	0300Z	<a href="#">Rules</a>

-[Contest data courtesy of the [WA7BNM Contest Calendar](#) ]

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